

GENERAL INFORMATION

Any questions relative to the Research Problem Statement must be submitted by e-mail to: mdot-research@michigan.gov. Questions must be received by **February 18, 2011 at 5:00 p.m. EST**. All questions and answers will be placed on the MDOT RFP Web site as soon as possible after receipt of the questions and at least three (3) days prior to the due date listed above. The names of organizations submitting questions will not be disclosed.

The prime contractor must be a Michigan university. An organization located outside of Michigan may be included in the research team, but cannot be the primary contractor. A consultant located in Michigan may be included in the research team, but cannot be the primary contractor. MDOT is an equal opportunity employer and MDOT DBE firms are encouraged to participate as a subcontractor. The participating DBE firm, as currently certified by MDOT's Office of Equal Opportunity, shall be listed in the Proposal.

MDOT AND ORBP FORMS REQUIRED AS PART OF PROPOSAL SUBMISSION:

- 5100D – Request for Proposal Cover Sheet
- 5100G – Certification of Key Personnel
- 5100I – Conflict of Interest Statement
- ORBP Research Proposal Budget Form Worksheet
- ORBP Schedule of Research Activities Form
- ORBP Deliverables Table
- ORBP Implementation Project Recommendation Form

**OFFICE OF RESEARCH & BEST PRACTICES
MDOT RESEARCH PROGRAM
2010 PROBLEM STATEMENT**

PROBLEM TITLE

Transportation Reliability and Trip Satisfaction

ORBP NO.
OR10-028

STRATEGIC PRIORITY NO.

CRITICAL ISSUE CODE
1-Congestion

MDOT PROJECT CATEGORY
Delivery & Operations:
Operations & Mobility

PROBLEM TO ADDRESS

BRIEFLY DESCRIBE THE PROBLEM TO BE ADDRESSED AND WHY IT IS AN ISSUE FOR MDOT

Transportation agencies need to know and understand the reliability of the transportation system. System reliability is a major component of trip satisfaction, and MDOT needs to determine the level of satisfaction regarding trips on the transportation system. MDOT needs to perform a study to better understand current levels of trip satisfaction in order to improve transportation operations in Michigan.

RESEARCH OBJECTIVES AND TASKS

LIST THE RESEARCH OBJECTIVE(S) TO BE ACCOMPLISHED

1. Identify problems travelers encounter on the state's transportation system that could adversely impact travel time reliability. Provide insight and recommendations as to how best to minimize and/or eliminate them.
2. Determine the best practices to measure reliability.
3. Determine those reliability measures most important to travelers.
4. Determine those reliability measures most important to the freight industry.
5. Determine what factors are considered by motorists when choosing a particular mode of travel.

LIST THE MAJOR TASKS TO ACCOMPLISH THE RESEARCH OBJECTIVES:

ESTIMATED PERSON HOURS

- | | |
|--|------|
| 1. Survey of travelers using all different modes of transportation. | 1000 |
| 2. Survey of Freight Industry(Shippers, Logistics and Carriers) | 600 |
| 3. Literature Review, including identification of common reliability measures and factors considered by the traveling public when planning destinations. | 150 |
| 4. Recommend reliability measures that will be posted to the MiDrive Web site for travelers to make a more informed decision on mode and/or route of travel. | 150 |
| 5. | |

ESTIMATED COST AND TIMELINE

ESTIMATE THE COST OF THIS RESEARCH STUDY (Please provide a cost range [min. and max.] associated with the person hours by task above)
Tier II (\$100,000 - \$250,000)

PROVIDE A PROPOSED TIMELINE FOR THE PROJECT (At minimum, the expected duration of the project)
10/1/2011 to 9/30/2012

REQUIRED COMPLETION DATE (At minimum, the date by which results are needed to be applicable)
9/30/2012

BUDGET INFORMATION

(For each FY, list suggested minimum and maximum budgets as targets. Indirect Cost Rate is for ORBP use only.)

TOTAL BUDGET (BY FY)	FY1	FY2	FY3	FY4	INDIRECT COST RATE

DELIVERABLES

WHAT DELIVERABLES SHOULD BE RECEIVED AT THE END OF THIS PROJECT? (e.g., usable technical product, design method, techniques, training, workshops, report, manual of practice, policy, procedure, specification, standard, software, hardware, equipment, training tools, etc.)
Report on understanding the level of satisfaction of travelers using Michigan's transportation network. This would include what information helps users determine the best mode of travel and/or route of travel. Reliability measures (travel time index, trip reliability, etc.) will be posted to the MiDrive web site for travelers to make a more informed decision on mode of travel.

MDOT INVOLVEMENT (What will MDOT provide for this project and when)
MDOT will provide oversight and guidance.

URGENCY, PAYOFF POTENTIAL AND IMPLEMENTATION

HOW URGENT IS THIS RESEARCH? IS IT IMPORTANT THAT IT BE DONE SOON? IF SO, WHY?

The development of phase 4 of the MiDrive program is scheduled to be completed in the fall of 2011. It would be helpful to apply this research as soon as possible to provide the most valuable information to the public.

DESCRIBE HOW THE PROPOSED RESULTS OF THIS PROJECT CAN BE IMPLEMENTED AT MDOT
Information can be placed on the MiDrive web site.

DESCRIBE HOW MDOT WILL BENEFIT FROM THE IMPLEMENTATION OF THIS PROJECT AND WHO THE BENEFICIARIES WILL BE. INCLUDE A DISCUSSION OF HOW MDOT DIVISIONS, OTHER THAN THAT OF THE PROBLEM SUBMITTER, WILL BENEFIT AND HOW.
MDOT will better understand user needs and be able to make better informed decisions. Regions and TSCs will better understand their particular area's needs and be able to adjust if needed. This will also help public transportation and the freight area. Information can be posted on MiDrive.

POTENTIAL OBSTACLES

WHAT RISKS OR OBSTACLES MAY MAKE CARRYING OUT THIS PROJECT DIFFICULT? WHAT STRATEGIES WILL YOU USE TO OVERCOME THEM?

POSSIBLE INVESTIGATOR(S)

DESIRED QUALIFICATIONS IN AN INVESTIGATOR

It is important that the research team has professional skill to design a survey and analyze the survey data.
